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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,096	09/09/2003	Bamdad Bahar	0769-4624US5 9845	
7590 10/06/2006		EXAMINER ·		
MORGAN & FINNEGAN, L.L.P.			MARTIN, ANGELA J	
345 Park Avenue New York, NY 10154			ART UNIT	PAPER NUMBER
			1745	
		DATE MAILED: 10/06/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		10/657,096	BAHAR ET AL.				
		Examiner	Art Unit				
		Angela J. Martin	1745				
Period for	The MAILING DATE of this communication app Reply	ears on the cover sheet with the c	orrespondence address				
WHICH - Extens after S - If NO p - Failure Any re	RTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DATE ions of time may be available under the provisions of 37 CFR 1.13 (X (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  (6(a). In no event, however, may a reply be time  (ii) apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠ F	Responsive to communication(s) filed on <u>28 Ju</u>	<u>ly 2006</u> .					
2a)⊠ 1	☐ This action is <b>FINAL</b> . 2b)☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits							
c	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositio	n of Claims						
4) 🛛 (	Claim(s) <u>1-15,17,18 and 20-26</u> is/are pending i	n the application.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) 🗌 (	5) Claim(s) is/are allowed.						
6)⊠ (	Claim(s) <u>1-15, 17, 18, 20-26</u> is/are rejected.						
7) 🗌 (	Claim(s) is/are objected to.						
8) 🗌 (	Claim(s) are subject to restriction and/or	election requirement.					
Applicatio	n Papers						
9)□ T	he specification is objected to by the Examine		•				
10)∐ T	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
P	Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
F	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)[] T	he oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority un	nder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1	. Certified copies of the priority documents	have been received.	,				
2	2. Certified copies of the priority documents have been received in Application No						
3	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
oco ano attached detailed office action for a list of the certified copies flot received.							
Attachment(	s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa					
Paper No(s)/Mail Date 6) Other:							
S. Patent and Trac	lemark Office						

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#### **DETAILED ACTION**

This Office Action is responsive to the Amendment filed on July 28, 2006. The Applicant has amended claims 1, 10, 18, 20; and canceled claim 19. Applicant has overcome the double patenting rejections. However, Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, this action is made final.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4, 6-15, 17, 18, 20-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Rusch et al., U.S. Pat. No. 6,130,175.

Rejection of claims 1-4, 6-15, 17, 18, 20-26 drawn to a polymeric membrane.

Rusch et al., teach an integral (col. 1, lines 9-11), substantially air impermeable polymeric membrane comprising a polymeric sheet (col. 4, lines 42-47) comprising polymer and having a porous structure with a microstructure of fibrils (col. 4, lines 42-47), the sheet having distributed in the polymer: inorganic particulate, metal, organic polymer, or a combination, and the porous structure is at least partially filled with an ion-exchange resin to provide ionic conductance (col. 8, lines 41-56). It teaches a finely divided powder (col. 8, lines 41-56). It teaches the sheet has precious metal, or silica, or

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titania, or carbon, or platinum distributed therein (col. 8, lines 41-56). It teaches the polymeric sheet is porous expanded PTFE (col. 3, lines 15-25). It teaches a polymeric sheet having a thickness of less than 50 microns (col. 4, lines 50-52). It teaches polymeric sheet has a porosity of 70-95% (col. 6, lines 49-55). It teaches the ion-exchange resin is fluorinated (col. 16, lines 29-45). It teaches the polymer has a cross-linked structure (col. 16, lines 29-45).

Thus, the claims are anticipated.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rusch et al., U.S. Pat. No. 6,130,175 in view of Koslow, U.S. Pat. No. 5,147,722.

Rusch et al., teach a polymeric membrane as described above.

Koslow teaches a polymeric membrane comprising ion-exchange resin (col. 25, lines 15-35) wherein the polymeric sheet has silica or fumed silica distributed therein (col. 16, lines 65-67 and col. 17, lines 1-7).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to insert the teachings of Koslow into the teachings of Rusch et al., because Koslow teaches that the addition of fumed silica can alter the stiffness of the membrane and improve the strength of the structure.

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## Response to Arguments

5. Applicant's arguments with respect to the pending claims have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272-1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**AJM** 

PATRICK JOSEPH RYAN SUPERVISORY PUTENT EXAMINER Page 5